

D-3180-G-2AE Specifications

D-3180-G-2AE SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, T_P	400	oz-in
Motor Constant, K_M	27.6	oz-in/ \sqrt{W}
Number of Poles	10	
Weight	36	oz (nom)
Motor Inertia, J_M	0.035	oz-in-s ²
Friction Torque, T_F	10	oz-in
Electrical Time Constant, τ_E	.769	ms
Mechanical Time Constant, τ_M	6.51	ms
Temperature Rise, Housed TPR'	5	°C/W
Ripple Torque T_R	10	max. avg. to peak (%)
Winding Constants	Value	Units
Torque Sensitivity, K_T	48	oz-in/amp
Back EMF, K_E	0.339	V per rad/s
Terminal Resistance, R_M	2.60	ohms (nom)
Terminal Inductance, L_M	3.2	mH (nom)
Voltage, Stalled at Peak Torque, V_P	26.0	volts
Amps at Peak Torque, I_P	9.23	amps

Brush Motors

D-3180-G-2AE Typical Outline Drawing

